

IN THE CLAIMS

1. (Previously presented) A method for fastening adjustable optical lenses, the method suited for a scanning chassis and used for fastening an optical-lens group, the scanning chassis comprising a case, a light source, a reflector group and an optical sensor, the light source, the reflector group and the optical sensor being mounted in the case, the light source being used for illuminating a document and an image of the document being obtained, the reflector group reflecting the image of the document to transmit the image to the optical sensor through the optical-lens group, and the method comprising:

forming an optical-lens pedestal in the case, the optical-lens pedestal comprising at least one groove; and

mounting the optical-lens group in a fixed position relative to the optical sensor on the at least one groove of the optical-lens pedestal, the optical-lens group located between the optical sensor and the reflector group, the optical lens group comprising two or more optical lenses, and the optical-lens group capable of receiving the image of the document and forming the image onto the optical sensor.

2. (Original) The method according to claim 1, wherein the optical-lens pedestal is integrally formed in the case.

3. (Original) The method according to claim 1, further comprising:
fixing a fastening cover over the optical-lens pedestal so that the optical-lens group is fixed between the optical-lens pedestal and the fastening cover.

4. (Original) The method according to claim 3, wherein the fastening cover is fixed on the optical-lens pedestal by means of hooks.

5. (Original) The method according to claim 3, wherein the fastening cover is fixed on the optical-lens pedestal by means of screws.

6. (Currently amended) An apparatus for fastening adjustable optical lenses, the apparatus suited for a scanning chassis and used for fastening an optical-lens group comprising at least one optical lens, the scanning chassis comprising a case, a light source, a reflector group and an optical sensor, the light source, the reflector group and the optical sensor being mounted in the case, the light source being used for illuminating a document and an image of the document being obtained, the reflector group reflecting the image of the document to transmit the image to the optical sensor through the optical-lens group, and the apparatus comprising:[:;]

an optical-lens pedestal integrally formed in the case, the optical-lens pedestal comprising a first channel, the first channel comprising a side wall and two sides which are open, there being at least one groove on the side wall of the first channel, an optical lens of the optical-lens group capable of being mounted on the at least one groove, the optical-lens group being located in a fixed position relative to the optical sensor, and the optical-lens group capable of receiving the image of the document and forming the image onto the optical sensor.

7. (Previously presented) The apparatus according to claim 6, wherein a cross-sectional shape of the first channel comprises a half-round shape.

8. (Original) The apparatus according to claim 6, further comprising a fastening cover fixed over the optical-lens pedestal so that the optical-lens group is fixed between the optical-lens pedestal and the fastening cover.

9. (Previously presented) The apparatus according to claim 8, wherein the fastening cover further comprises a second channel, two sides which are open, and a cross-sectional shape of the second channel comprises a half-round shape.

10. (Previously presented) The apparatus according to claim 8, wherein the fastening cover comprises a plurality of hook and the optical-lens pedestal comprises a

plurality of hooking ditches, the hooks coupled with the hooking ditches so that the fastening cover is firmly fixed on the optical-lens pedestal.

11. (Currently amended) The apparatus according to claim 8, further comprising:

a plurality of screws;

a plurality of first screw holes in the fastening cover; and

a plurality of second screw holes in the optical lens pedestal, the first screw holes corresponding to the second screw holes and the screws capable of being screwed through the first screw holes and into the second screw holes so that the fastening cover ~~can be~~ is capable of being firmly fixed on the optical-lens pedestal.

12. (Previously presented) An optical scanning chassis, comprising:

a case;

a light source mounted in the case and used for illuminating a document so that an image of the document is obtained;

an optical sensor mounted in the case and used for receiving the image of the document;

an optical-lens group mounted in the case and having at least two optical lenses;

a reflector group mounted in the case and reflecting the image of the document to transmit the image to the optical sensor through the optical-lens group; and

an optical-lens pedestal located in the case, the optical-lens pedestal comprising a first channel, the first channel comprising a sidewall and two sides which are open, there being at least one groove on a side wall of the first channel, wherein an optical lens of the optical-lens group is mounted on the at least one groove, the optical-lens group is located between the optical sensor and the reflector group, and the optical-lens group is capable of receiving the image of the document and forming the image onto the optical sensor.

13. (Previously presented) The optical scanning chassis according to claim 12, wherein a cross-sectional shape of the channel comprises a half-round shape.

14. (Previously presented) The optical scanning chassis according to claim 12, further comprising a fastening cover fixed over the optical-lens pedestal such that the optical-lens group is fixed between the optical-lens pedestal and the fastening cover.

15. (Previously presented) The optical scanning chassis according to claim 14, wherein the fastening cover comprises a second channel and two sides which are open, and the cross-sectional shape of the second channel comprises a half-round shape.

16. (Previously presented) The optical scanning chassis according to claim 15, wherein the fastening cover comprises a plurality of hooks, the optical-lens pedestal comprises a plurality of hooking ditches, and the hooks are coupled with the hooking ditches such that the fastening cover is firmly fixed on the optical-lens pedestal.

17. (Currently amended) The optical scanning chassis according to claim 15, further comprising:
a plurality of screws;
a plurality of first screw holes in the fastening cover; and
a plurality of second screw holes in the optical lens pedestal, the first screw holes corresponding to the second screw holes and the screws capable of being screwed through the first screw holes and into the second screw holes such that the fastening cover is firmly fixed on the optical-lens pedestal.

18. (Previously presented) A method, comprising:
forming an optical-lens pedestal in a case of a scanning chassis, the scanning chassis comprising the case, a reflector group, an optical-lens group and an optical sensor, the optical-lens group comprising two or more optical lenses and capable of

receiving an image of a document and forming the image onto the optical sensor, the optical-lens pedestal comprising at least one groove; and

mounting the optical-lens group on the at least one groove of the optical-lens pedestal, the optical-lens group being located in a fixed position relative to the optical sensor.

19. (Previously presented) The method according to claim 18, wherein the optical-lens pedestal is integrally formed in the case.

20. (Previously presented) The method according to claim 18, further comprising fixing a fastening cover over the optical-lens pedestal thereby fixing the optical-lens group between the optical-lens pedestal and the fastening cover.

21. (Previously presented) The method according to claim 20, wherein fixing the fastening cover comprises fixing the fastening cover on the optical-lens pedestal by at least one hook.

22. (Previously presented) The method according to claim 20, wherein fixing the fastening cover comprises fixing the fastening cover on the optical-lens pedestal by at least one screw.

23. (Previously presented) An apparatus, comprising:
an optical-lens pedestal integrally formed in a case of a scanning chassis, the scanning chassis comprising the case, a reflector group, an optical-lens group and an optical sensor, the optical-lens group comprising at least two optical lenses located between the optical sensor and the reflector group and being capable of receiving an image of a document and forming the image on the optical sensor, the optical-lens pedestal comprising a first channel, the first channel comprising a side wall and two sides that are open, at least one groove being on the side wall of the first channel, and an

optical lens of the optical-lens group being capable of being mounted on the at least one groove in a fixed position relative to the optical sensor.

24. (Previously presented) The apparatus according to claim 23, wherein a cross-sectional shape of the channel comprises a half-round shape.

25. (Previously presented) The apparatus according to claim 23, further comprising a fastening cover fixed over the optical-lens pedestal.

26. (Previously presented) The apparatus according to claim 25, wherein the fastening cover further comprises a second channel, the second channel comprising two sides that are open, and a cross-sectional shape of the second channel comprises a half-round shape.

27. (Currently amended) The apparatus according to claim 25, wherein the fastening cover comprises a plurality of hooks, wherein the optical-lens pedestal comprises a plurality of hooking ditches, and wherein the hooks ~~can be~~ are capable of being respectively coupled with the hooking ditches thereby fixing the fastening cover on the optical-lens pedestal.

28. (Previously presented) The apparatus according to claim 25, further comprising a plurality of screws, wherein the fastening cover comprises a plurality of first screw holes, wherein the optical-lens pedestal comprises a plurality of second screw holes, and wherein the first screw holes correspond to the second screw holes and the screws are capable of being screwed through the first screw holes and into the second screw holes thereby fixing the fastening cover on the optical-lens pedestal.

29. (Previously presented) An optical scanning chassis, comprising:
a case;
an optical sensor capable of receiving an image of a document;
an optical-lens group mounted in the case and having at least two optical lenses;
a reflector group mounted in the case and reflecting the image of the document to transmit the image to the optical sensor through the optical-lens group; and
an optical-lens pedestal located in the case, the optical-lens pedestal comprising a channel, the channel comprising a side wall, two sides that are open, and at least one groove on the side wall of the channel, an optical lens of the optical-lens group capable of being mounted on the at least one groove, the optical-lens group capable of being located between the optical sensor and the reflector group, the optical-lens group capable of receiving the image of the document and forming the image on the optical sensor.

30. (Previously presented) The optical scanning chassis according to claim 29, wherein a cross-sectional shape of the channel comprises a half-round shape.

31. (Previously presented) The optical scanning chassis according to claim 29, further comprising a fastening cover fixed over the optical-lens pedestal thereby fixing the optical-lens group between the optical-lens pedestal and the fastening cover.

32. (Previously presented) The optical scanning chassis according to claim 31, wherein the fastening cover comprises a second channel, the second channel comprising two sides that are open, and wherein a cross-sectional shape of the second channel comprises a half-round shape.

33. (Currently amended) The optical scanning chassis according to claim 31, wherein the fastening cover comprises a plurality of hooks,
wherein the optical-lens pedestal comprises a plurality of hooking ditches, and
wherein the hooks ~~can be~~ are capable of being coupled with the hooking ditches thereby fixing the fastening cover on the optical-lens pedestal.

34. (Previously presented) The optical scanning chassis according to claim 31, further comprising a plurality of screws,
wherein the fastening cover comprises a plurality of first screw holes,
wherein the optical-lens pedestal comprises a plurality of second screw holes,
wherein the first screw holes corresponds to the second screw holes, and
wherein the screws are capable of being screwed through the first screw holes and into the second screw holes thereby fixing the fastening cover on the optical-lens pedestal.

35. (Previously presented) An apparatus, comprising:
an optical-lens pedestal integrally formed in a case of a scanning chassis, the scanning chassis comprising the case, a reflector group, an optical-lens group and an optical sensor, the optical-lens group comprising at least two optical lenses located between the optical sensor and the reflector group and capable of receiving an image of a document and forming the image on the optical sensor, the optical-lens pedestal comprising a first channel, the first channel comprising a side wall, two sides that are open, and at least one groove on the side wall of the first channel, and an optical lens of the optical-lens group being capable of being mounted on the at least one groove; and
means for fastening a cover over the optical-lens pedestal thereby fixing the optical-lens group between the optical-lens pedestal and the fastening cover.

36. (Previously presented) The apparatus according to claim 35, wherein the means for fastening further comprises a second channel, the second channel comprising two sides that are open, and a cross-sectional shape of the second channel comprises a half-round shape.

37. (Currently amended) The apparatus according to claim 35,
wherein the means for fastening comprises a plurality of hooks,
wherein the optical-lens pedestal comprises a plurality of hooking ditches, and

wherein the hooks ~~can be~~ are capable of being coupled with the hooking ditches thereby fixing the cover on the optical-lens pedestal.

38. (Previously presented) The apparatus according to claim 35, wherein the means for fastening comprises a plurality of screws, wherein the cover comprises a plurality of first screw holes, wherein the optical-lens pedestal comprises a plurality of second screw holes, and

wherein the first screw holes correspond to the second screw holes, and the screws are capable of being screwed through the first screw holes and into the second screw holes thereby fixing the cover on the optical-lens pedestal.

39. (Previously presented) An optical scanning chassis, comprising:
a case;
an optical sensor capable of receiving an image of a document;
an optical-lens group mounted in the case and having at least two optical lenses;
a reflector group mounted in the case and reflecting the image of the document to transmit the image to the optical sensor through the optical-lens group;
an optical-lens pedestal located in the case, the optical-lens pedestal comprising a channel, the channel comprising a side wall, two sides that are open, and at least one groove on the side wall of the channel, an optical lens of the optical-lens group capable of being mounted on the at least one groove, the optical-lens group capable of being located between the optical sensor and the reflector group, the optical-lens group capable of receiving the image of the document and forming the image on the optical sensor; and
means for fastening a cover over the optical-lens pedestal thereby fixing the optical-lens group between the optical-lens pedestal and the fastening cover.

40. (Previously presented) The optical scanning chassis according to claim 39, wherein a cross-sectional shape of the channel comprises a half-round shape.

41. (Previously presented) The optical scanning chassis according to claim 39, wherein the means for fastening comprises a second channel, the second channel comprising two ends that are open, and wherein a cross-sectional shape of the second channel comprises a half-round shape.

42. (Currently amended) The optical scanning chassis according to claim 39, wherein the means for fastening comprises a plurality of hooks coupled to the cover, wherein the optical-lens pedestal comprises a plurality of hooking ditches, and wherein the hooks ~~can be~~ are capable of being coupled with the hooking ditches thereby fixing the cover on the optical-lens pedestal.

43. (Previously presented) The optical scanning chassis according to claim 39, wherein the means for fastening comprises a plurality of screws, wherein the cover comprises a plurality of first screw holes, wherein the optical-lens pedestal comprises a plurality of second screw holes, wherein the first screw holes corresponds to the second screw holes, and wherein the screws are capable of being screwed through the first screw holes and into the second screw holes thereby fixing the cover on the optical-lens pedestal.

44. (Previously presented) The method of claim 1, wherein mounting the optical-lens group comprises mounting the optical-lens group using an adhesive.

45. (Previously presented) The method of claim 20, wherein fixing the fastening cover comprises fixing the fastening cover on the optical-lens pedestal using an adhesive.